

ABSTRACT

An optical recording apparatus includes an optical pickup unit for generating and directing optical signals onto a given optical medium, and for detecting corresponding reflected optical signals from the optical medium; a focus motor for moving a focusing lens on the optical pickup according to a focus signal for adjusting a defocus of the optical signals on the optical medium; and a focus controller for generating the focus signal. During write operations of the optical recording apparatus, the focus controller is for performing write defocus calibration on the given optical medium to determine an optimal write defocus value for the optical medium. If the optical medium has multiple layers, the write defocus calibration is performed on a particular layer of the optical disc toward which write operations are directed. If the optimal defocus write value is different than a starting write defocus value, an updated write defocus value is stored.